

figure 1

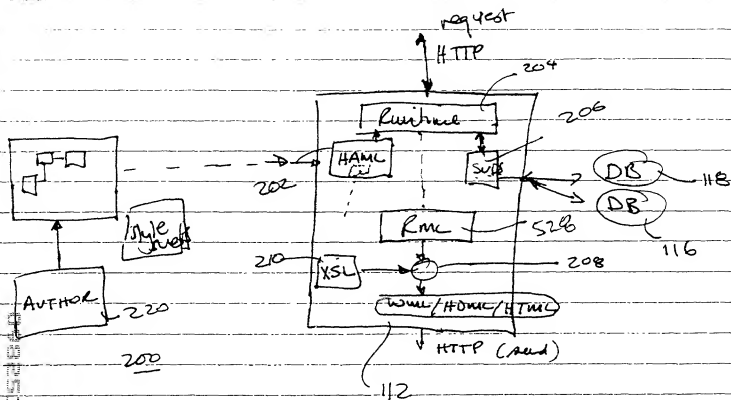


Figure 2

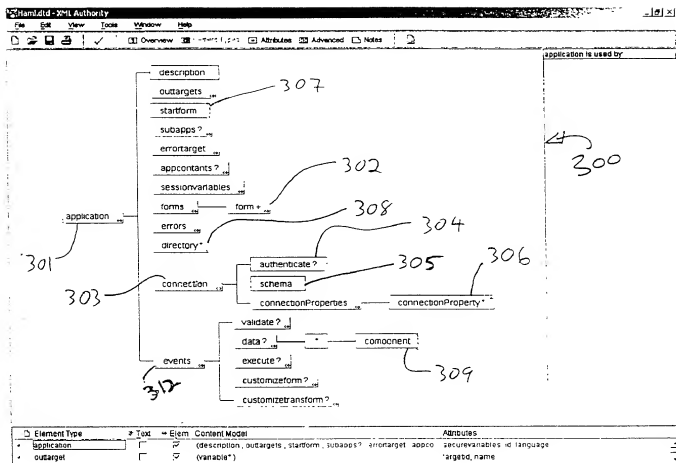


Figure 3

0025250-004000

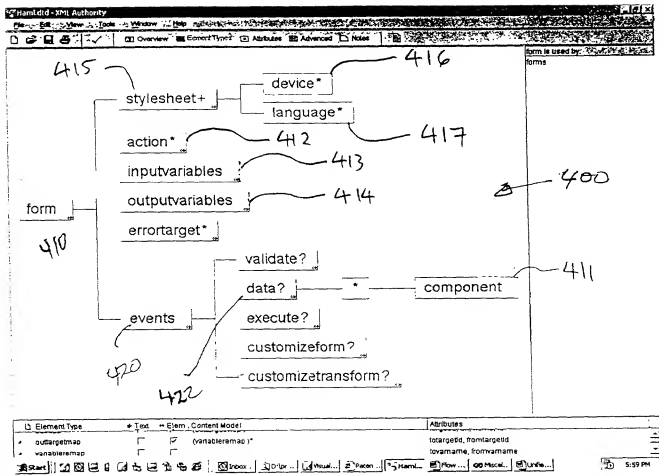


Figure 4

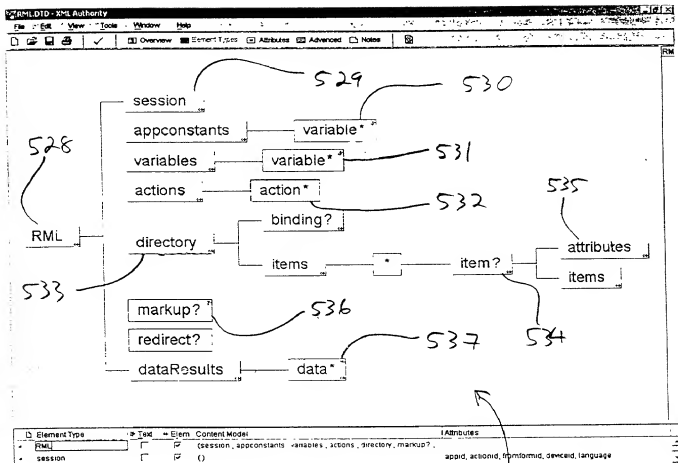


Figure 5

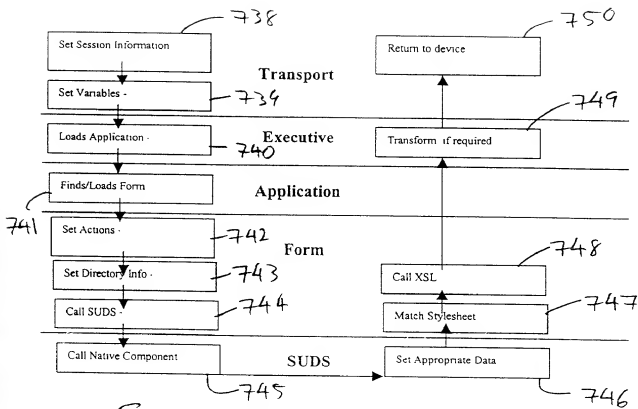


Figure 7

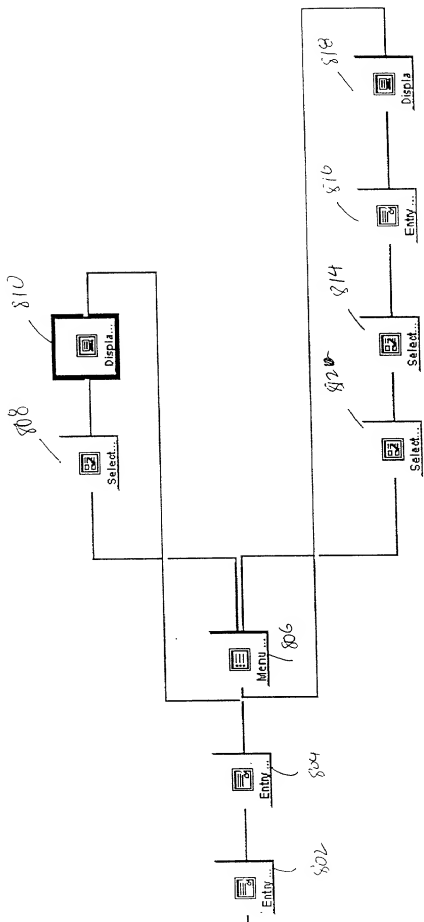


Figure 8(a)

```

<?xml version="1.0" encoding="UTF-8" ?>
- <application usecookies="false" id="{F6681A6F-FB7C-4901-855C-08791DDE8DC8}"
  securevariables="false">
    <description version="1" name="MQBanking" />
    <outtargets />
    <startform totargetid="UserID" />
    <subapps />
    <errortarget totargetid="UserID" />
    <properties>
      <variable default="209.23.23.23" name="ServerIP" />
    </properties>
    <sessionvariables>
      <variable name="Session" />
    </sessionvariables>
    <forms>
      - <form targetid="UserID" includeheaders="false">
          <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
          <action totargetid="Password" name="OK" />
          <inputvariables />
          <outputvariables>
            <variable name="UserID" />
          </outputvariables>
          <events />
        </form>
      - <form targetid="Password" includeheaders="false">
          <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
          <action totargetid="Main" name="OK" />
          <inputvariables>
            <variable name="UserID" />
          </inputvariables>
          <outputvariables>
            <variable name="Session" />
          </outputvariables>
          <events />
        </form>
      - <form targetid="Main" includeheaders="false">
          <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
          <action totargetid="Account" name="Account Balance" />
          <action totargetid="Bill Payment" name="Bill Payment" />
          <action totargetid="Transfer" name="Account Transfer" />
          <inputvariables />
          <outputvariables />
          <events />
        </form>
      - <form targetid="Account" includeheaders="false">
          <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
          <action totargetid="Details" name="OK" />
          <inputvariables />
          <outputvariables>
            <variable name="AccountID" />
          </outputvariables>

```

Fig 8(6)

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    <events />
  </form>
- <form targetid="Details" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Main" name="OK" />
  <inputvariables>
    <variable name="AccountID" />
  </inputvariables>
  <outputvariables />
  <events />
</form>
- <form targetid="Bill Payment" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Bill" name="OK" />
  <inputvariables />
  <outputvariables>
    <variable name="AccountID" />
  </outputvariables>
  <events />
</form>
- <form targetid="Bill" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Amount" name="OK" />
  <inputvariables>
    <variable name="AccountID" />
  </inputvariables>
  <outputvariables>
    <variable name="BillID" />
    <variable name="AccountID" />
  </outputvariables>
  <events />
</form>
- <form targetid="Amount" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Confirm" name="OK" />
  <inputvariables>
    <variable name="BillID" />
    <variable name="AccountID" />
  </inputvariables>
  <outputvariables>
    <variable name="AccountID" />
    <variable name="BillID" />
    <variable name="Amount" />
  </outputvariables>
  <events />
</form>
- <form targetid="Confirm" includeheaders="false">
  <stylesheet contenttype="WML11" url="http://www.mobileq.com" />
  <action totargetid="Main" name="Cancel" />
  <inputvariables>
    <variable name="AccountID" />
    <variable name="BillID" />

```

Fig 8(c)


```

<rm1>
- <dataresults>
- <data name="source1">
- <RECORDS>
- <RECORD>
  <Blair PK="1">172-32-1176</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>White</LastName>
  <FirstName>Johnson</FirstName>
</RECORD>
- <RECORD>
  <Blair PK="1">213-46-891</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Green</LastName>
  <FirstName>Marjorie</FirstName>
</RECORD>
- <RECORD>
  <Blair PK="1">238-95-7766</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Carson</LastName>
  <FirstName>Cheryl</FirstName>
</RECORD>
- <a>
- <RECORD>
  <Blair PK="1">238-95-7766</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Carson</LastName>
  <FirstName>Cheryl</FirstName>
</RECORD>
</a>
- <a>
- <b>
- <RECORD>
  <Blair PK="1">238-95-7766</Blair>
  <Test1 PK="1">1</Test1>
  <Test2 PK="1">2</Test2>
  <Test3 PK="1">3</Test3>
  <LastName>Carson</LastName>
  <FirstName>Cheryl</FirstName>
</RECORD>
</b>
</a>
</RECORDS>

```

Fig 9(a)

- <actions>
 <action formatstring="" actionid="OK" querystring="?"
 _SQRSIGN=A&_SQAPPID={B77444A1-BD9E-4248-A664-
 6C483F8B4540}&_ACTIONID=OK&_SQFORMID={8D7B4336-6341-
 4D2C-B2D8-49FE88D1B13A}&EmployeeID=\$EmployeeID" />
</actions>
- <dictionary>
 <variable />
 <variable />
</dictionary>
</rml>

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fy9(c)

```

- <xsl:stylesheet xmlns:xsl="http://www.w3.org/TR/WD-xsl">
- <xsl:template match="/">
- <wml>
- <head>
- <meta name="FormType" content="SQSelectForm" />
- <meta name="ListMethod" content="numeric" />
- </head>
- <card>
- <xsl:attribute name="title">qwe</xsl:attribute>
- <p>
- <select>
- <xsl:attribute name="title">qwe</xsl:attribute>
- <xsl:attribute name="name">asd</xsl:attribute>
- <xsl:for-each select="/rml/dataresults/data
  [@name='source2']/RECORD">
- <option>
- <xsl:attribute name="value">
- <xsl:value-of select="Blair" />
- z1z
- <xsl:value-of select="Test1" />
- z1z
- <xsl:value-of select="Test2" />
- z1z
- <xsl:value-of select="Test3" />
- </xsl:attribute>
- <xsl:attribute name="title">
- <xsl:value-of select="LastName" />
- '
- <xsl:value-of select="FirstName" />
- '
- <xsl:value-of select="/rml/data
  [@name='source1']/RECORDS/RECORD/Blair" />
- </xsl:attribute>
- blah blah blah
- </option>
- </xsl:for-each>
- </select>
- </p>
- <xsl:for-each select="/rml/actions//action">
- <do>
- <xsl:attribute name="type">accept</xsl:attribute>
- <xsl:attribute name="label">
- <xsl:value-of select="@actionid" />
- </xsl:attribute>
- <go>
- <xsl:attribute name="href">
- <xsl:value-of select="@querystring" />
- </xsl:attribute>
- </go>
- </do>
- </xsl:for-each>
- </card>

```

Fig 10(a)

```
</wml>  
</xsl:template>  
</xsl:stylesheet>
```

FOI040:0522860

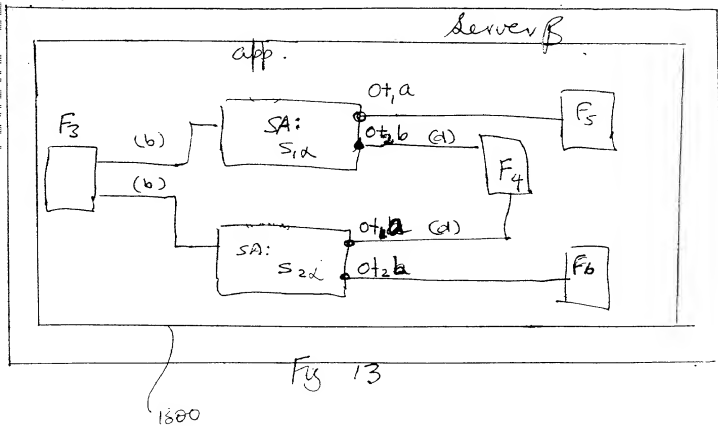
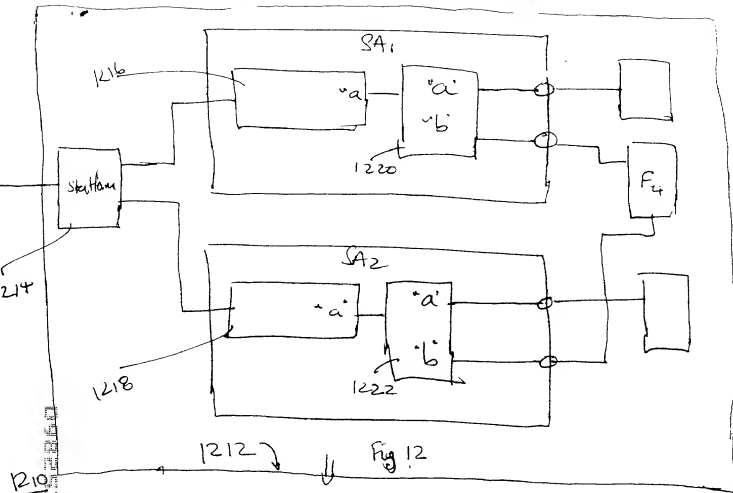
Fig 10(b).

```

- <wml>
- <head>
  <meta name="FormType" content="SQSelectForm" />
  <meta name="ListMethod" content="numeric" />
</head>
- <card title="Select Account">
- <p>
  - <select title="Select Account" name="HoldingsAccountID">
    <option value="1" title="Acct 10314">Acct 10314</option>
    <option value="2" title="Acct 11345">Acct 11345</option>
  </select>
  <br />
</p>
- <do type="accept" label="OK">
  <go href="?_SQRSIGN=A&_SQAPPID={8D360BDF-E570-45E9-BEC1-
    4E5DD949C5C0}&_ACTIONID=OK&_SQFORMID={BCC091A1-63D4-
    11D3-9E34-0090273EFC3B}
    &HoldingsAccountID=${HoldingsAccountID}
    &UserID=246531&Session=1" />
</do>
</card>
</wml>

```

Fig. 11



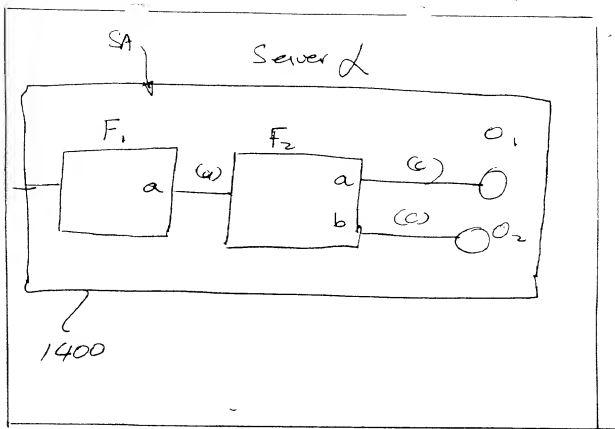


Figure 14.

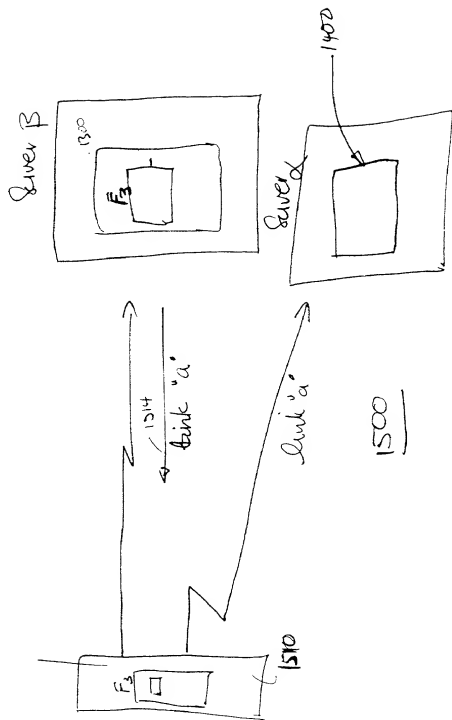
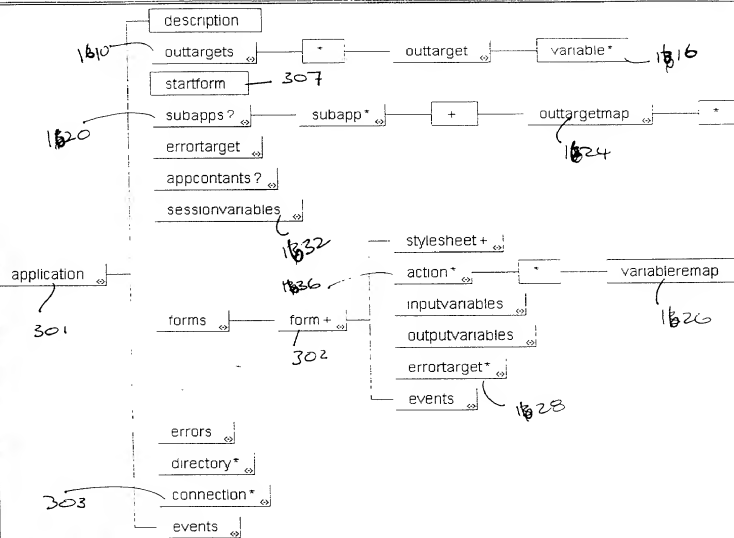


Fig 15

HamI.dtd - Element Types

File Edit View Tools Window Help

Check For Errors Element Types Attribute Types Notes Source



Element Type	* Text	* Elem.	* Data	Content Model	Attributes
application				(description, outtargets, startform, subapps?, err	securevariabl
outtarget				(variable*)	targetid, nam
sessionvariables				(variable*)	
variable					default, requi
subapp				(subapp*)	

Figure 16

Receive request

- Determine request signature
 - app
 - targetid
 - language
 - markup
- Add to Runtime XML (RML)
 - Request signature
 - Dictionary element containing the Name/value pairs from request
- Load app
- Pass RML to app
- Process app
 - Find targetid?
 - Subapp
 - Load subapp
 - Pass RML to app
 - Process app
 - Form
 - Generate Action urls and add them to the RML
 - If no cookies
 - Include all variables
 - Remap to new names as described in HAML
 - Find a StyleSheet that matches the language and markup requested
 - Process Stylesheet
- If cookies are on and the device supports cookies
 - Build cookie creation instructions for
 - Out variables in the RML
 - Remap to new names as described in HAML
 - Session variables in the RML
 - Remap to new names as described in HAML
- Return generated markup

Fig 17